

Attorney Docket: 01098  
U.S. Application No.: 10/743,358 Examiner: Loo Art Unit: 2609  
Response to March 13, 2008 Final Office Action

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AMENDMENT TO THE CLAIMS

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[c01] (Currently Amended) A method of providing communications services, comprising:

logically bonding a first physical medium to a subscriber's premise communications-device;

connecting a second physical medium to the subscriber's premise communications-device;

connecting the second physical medium to another subscriber's premise communications-device;

sharing the second physical medium amongst the subscriber's premise and the another subscriber's premise subscribers;

receiving a request for communications service from the subscriber's premise communications-device;

when the requested communications service exceeds an available bandwidth of the first physical medium, then temporarily logically bonding the second physical medium to the subscriber's premise communications-device to provide additional bandwidth, such that first physical medium and the second physical medium share a session of information;

providing the requested communications service via the logically bonded first physical medium and the temporarily logically bonded second physical medium; and

when the additional bandwidth is no longer needed, removing the temporary logical bonding of the second physical medium; and

reverting the second physical medium to its shared configuration, thus allowing the another subscriber to receive increased bandwidth when required.

[c02] (Previously Presented) A method according to claim 1, wherein logically bonding the first physical medium comprises logically bonding a twisted pair.

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- [c03] (Previously Presented) A method according to claim 1, wherein logically bonding the first physical medium comprises logically bonding a coaxial cable.
- [c04] (Previously Presented) A method according to claim 1, wherein logically bonding the first physical medium comprises logically bonding a fiber optic cable.
- [c05] (Previously Presented) A method according to claim 1, wherein providing the requested communications service comprises transmitting signals via at least one of i) a combination of a twisted pair and a coaxial cable, ii) a combination of a twisted pair and a fiber optic cable, and iii) a combination of a coaxial cable and a fiber optic cable.
- [c06] (Currently Amended) A method according to claim 1, further comprising temporarily logically bonding additional physical media to the subscriber's premise, each additional physical media dynamically shared with the another subscriber's premise to provide additional bandwidth.
- [c07] (Previously Presented) A method according to claim 1, providing the requested communications service comprises transmitting signals via a shared twisted pair.
- [c08] (Currently Amended) A method according to claim 1, further comprising temporarily logically bonding  $n$  physical media to the subscriber's premise, such that first physical medium and the  $n$  physical media share the same session of information.
- [c09] (Currently Amended) A method of providing communications services, comprising:
  - configuring a first twisted pair to provide Digital Subscriber Line service to a subscriber's premise destination;
  - configuring a second twisted pair for shared Digital Subscriber Line service amongst the subscriber's premise destination and another subscriber's premise destination;

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receiving a request for communications service;  
transmitting digital subscriber line signals to the subscriber's premise destination via the first twisted pair;  
when the requested communications service exceeds an available bandwidth of the first twisted pair, then temporarily logically bonding the second twisted pair to the subscriber's premise destination to provide additional bandwidth;  
providing the requested communications service via the logically bonded first twisted pair and the temporarily logically bonded second twisted pair; and  
when the additional bandwidth is not needed, removing the temporary logical bonding of the second twisted pair; and  
reverting the second twisted pair to its shared configuration, thus allowing the another subscriber's premise destination to receive increased bandwidth when required.

- [c10] (Previously Presented) A method according to claim 9, further comprising sharing the same session of information.
- [c11] (Currently Amended) A method according to claim 9, further comprising connecting the second twisted pair and the first twisted pair to the subscriber's premise destination, such that first twisted pair and the second twisted pair share the same session of information.
- [c12] (Currently Amended) A method according to claim 9, further comprising transmitting the digital subscriber line signals to the subscriber's premise destination via a third twisted pair, the third twisted pair shared amongst the subscriber's premise destination and the another subscriber's premise destination, the third twisted pair providing more additional bandwidth.
- [c13] (Currently Amended) A method according to claim 9, further comprising instructing a network device to logically bond the second twisted pair and the first twisted pair when transmitting the digital subscriber line signals to the subscriber's premise destination,

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such that first twisted pair and the second twisted pair share the same session of information.

[c14] (Currently Amended) A method according to claim 9, further comprising logically bonding  $n$  twisted pairs to the first twisted pair when transmitting the digital subscriber line signals to the subscriber's premise destination, such that first twisted pair and the  $n$  twisted pairs share the same session of information.

[c15] (Previously Presented) A method of providing communications services, comprising:

receiving a request for communications services from a client communications device;

logically bonding a first physical medium to the client communications device;

temporarily logically bonding a second physical medium to the client communications device, the second physical medium being dynamically shared amongst multiple client communications devices to provide additional bandwidth when required;

providing the communications services via the logically bonded first physical medium and the second physical medium; and

when the additional bandwidth is no longer needed, reverting the second physical medium to its shared configuration, thus allowing another customer to receive increased bandwidth when required.

[c16] (Previously Presented) A method of providing communications services, comprising:

receiving a request for communications service;

downloading media content in response to the requested communications service;

when the requested communications service exceeds an available bandwidth of a first physical medium, then temporarily logically bonding a second physical medium to provide additional bandwidth;

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downloading the media content via the first physical medium and the temporarily logically bonded second physical medium; and  
when the additional bandwidth is no longer needed, reverting the second physical medium to a shared configuration, thus allowing another requestor to receive increased bandwidth when required.